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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/500,345	0,345 06/24/2004		Sture Ostlund	6009-4710	2533	
27123	7590	05/12/2005		EXAM	EXAMINER	
		EGAN, L.L.P.	LIN, KUANG Y			
3 WORLD FINANCIAL CENTER NEW YORK, NY 10281-2101				ART UNIT	PAPER NUMBER	
	•			1725		

DATE MAILED: 05/12/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

· · · · · · · · · · · · · · · · · · ·	Application No.	Applicant(s)
	10/500,345	OSTLUND ET AL.
Office Action Summary	Examiner	Art Unit
	Kuang Y. Lin	1725
The MAILING DATE of this communicati Period for Reply	ion appears on the cover sheet wi	th the correspondence address
A SHORTENED STATUTORY PERIOD FOR THE MAILING DATE OF THIS COMMUNICATORY Extensions of time may be available under the provisions of 37 after SIX (6) MONTHS from the mailing date of this communicator of the period for reply specified above is less than thirty (30) dayon if NO period for reply is specified above, the maximum statutor Failure to reply within the set or extended period for reply will, be any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	CFR 1.136(a). In no event, however, may a restion. ys, a reply within the statutory minimum of thirty y period will apply and will expire SIX (6) MON by statute, cause the application to become AB.	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).
Status		
1)⊠ Responsive to communication(s) filed or	n <u>24 June 2004</u> .	
2a) This action is FINAL . 2b)	☑ This action is non-final.	
3) Since this application is in condition for a	allowance except for formal matte	ers, prosecution as to the merits is
closed in accordance with the practice u	ınder <i>Ex parte Quayle</i> , 1935 C.D	. 11, 453 O.G. 213.
Disposition of Claims		•
4) Claim(s) 1-6 is/are pending in the applic	ation.	
4a) Of the above claim(s) is/are w	rithdrawn from consideration.	
5) Claim(s) is/are allowed.		
6) Claim(s) 1,5 and 6 is/are rejected.		
7) Claim(s) 2-4 is/are objected to.	and/or aloction requirement	
8) Claim(s) are subject to restriction	and/or election requirement.	
Application Papers		
9) The specification is objected to by the Ex	<u> </u>	
	☐ accepted or b)☐ objected to t	•
Applicant may not request that any objection		• •
Replacement drawing sheet(s) including the 11) The oath or declaration is objected to by	,	•
	the Examiner. Note the attached	Office Action of form PTO-192.
Priority under 35 U.S.C. § 119		
12)⊠ Acknowledgment is made of a claim for f a)⊠ All b)□ Some * c)□ None of: 1.⊠ Certified copies of the priority doc	uments have been received.	
2. Certified copies of the priority doc		· · · · · · · · · · · · · · · · · · ·
3. Copies of the certified copies of the	•	received in this National Stage
application from the International I * See the attached detailed Office action for	, , , , , , , , , , , , , , , , , , , ,	received
See the attached detailed Office action to	i a not of the certified copies flot	Cocivou.
Attachment(s)		
1) Notice of References Cited (PTO-892)	4) Interview S	ummary (PTO-413)
2) Notice of Draftsperson's Patent Drawing Review (PTO-9	Paper No(s)/Mail Date
 Information Disclosure Statement(s) (PTO-1449 or PTO- Paper No(s)/Mail Date 6/24/04. 	/SB/08) 5) ☐ Notice of in 6) ☐ Other:	formal Patent Application (PTO-152)

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1. Applicant is requested to provide in the specification the headings, such as "BACKGROUND OF THE INVENTION", "SUMMARY OF THE INVENTION", "BRIEF DESCRIPTION OF THE DRAWINGS", "DETAILED DESCRIPTION OF THE DRAWINGS", etc. to render the specification in a better format.

2. Claim 5 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

There is a lack of antecedent basis in the claim for "the side walls" (line 3) and "said one end of each of said graphite blocks" (line 4).

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Gardner. The scope of the claim reads on the structure of Gardner. In Gardner the structure located above the insert 22 is considered as tundish.
- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of

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the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

7. Claims 5 and 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gardner.

It is conventional to use graphite mold for continuously casting molten metal (see, for example, Tilkak or Wilson). With respect to claim 6, whether the top structure is slidable relatively to the sealing element is deemed to be nothing more than an obvious matter of design choice since it does not make any different in the cast product.

- 8. Claims 2-4 are objected to as depending from a rejected claim. However, they contain an allowable subject matter and will be allowed upon being rewritten in an independent format.
- 9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kuang Y. Lin whose telephone number is 571-272-1179. The examiner can normally be reached on Monday-Friday, 10:00-6:30,.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas X. Dunn can be reached on 571-272-1171. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

Kuang Y. Lin Primary Examiner Art Unit 1725

5-10-05